#### **DATA COLUMN** COUNTY TAX MAP: 08-040.00-054 DNREC PROJECT NUMBER: NEWARK, DE 19711 LOT AREA: 91.09 ACS. 91.09 ACS. 111.44 ACS. 111.44 ACS 66.61 ACS. 66.61 ACS. SOURCE OF TITLE: 08-040.00-054 08-040.00-055 08-041.00-027 20020814-0078868 808-151 EXISTING USE: PROPOSED USE: VERTICAL -- NAVD 88 EXISTING DRAINAGE MANHOLE INTERSECTION THOMPSON STATION ROAD AND NINE FOOT ROAD SITE CONDITIONS WITHIN LIMITS OF DISTURBANCE (ACRES) PAVEMENT/CONCRETE 0.91 ACRES 0.09 ACRES ACCORDING TO THE WATER RESOURCE PROTECTION MAP FOR NEW CASTLE COUNTY, MAP 1 OF 3, DATED 1987, LAST REVISED DECEMBER THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 11.88± ACRES (517,493± S.F.) THE TOTAL LIMITS OF CONSTRUCTION FOR THE SITE IS 11.88± ACRES (517,493± S.F.) 1.) POA 1 - ROADSIDE SWALE: CONTRIBUTING LOD AREA = 1.38 ACRES 2.) POA 2 - RECEIVING LIMB TO UNNAMED TRIBUTARY: CONTRIBUTING LOD AREA = 81.23 ACRES 3.) POA 3 - UNNAMED TRIBUTARY: CONTRIBUTING LOD AREA = 1.76 ACRES 4.) POA 4 - EXISTING CULVERT UNDER THOMPSON STATION ROAD: CONTRIBUTING LOD AREA = 15.71 ACRES 5.) POA 5 - EXISTING DRAINAGE INLET AT INTERSECTION: CONTRIBUTING LOD AREA = 1.61 ACRES 16. OWNER/DEVELOPER: STATE OF DELAWARE DNREC. DIVISION OF PARKS & RECREATION 89 KINGS HIGHWAY, DOVER, DE 19901 PHONE: 302-739-9210 FAX: 302-739-3817 17. REVIEW AGENCY: DNREC, DIVISION OF WATERSHED STEWARDSHIP 89 KINGS HIGHWAY, DOVER, DE 19901 PHONE: (302) 739-9921 FAX: (302) 739-6724 CENTURY ENGINEERING, INC. 18. CIVIL ENGINEER: 4134 NORTH DUPONT HIGHWAY, DOVER, DE 19901 ALEX SCHMIDT, P.E. PHONE: (302) 734-9188 FAX: (302) 734-4589 **GENERAL NOTES** 1. THE DNREC SEDIMENT AND STORMWATER MANAGEMENT PROGRAM SUBMITTED TO DNREC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO TERMINATION HAS BEEN PROCESSED BY DNREC. CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND 11. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL STORMWATER MANAGEMENT PLAN. ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT

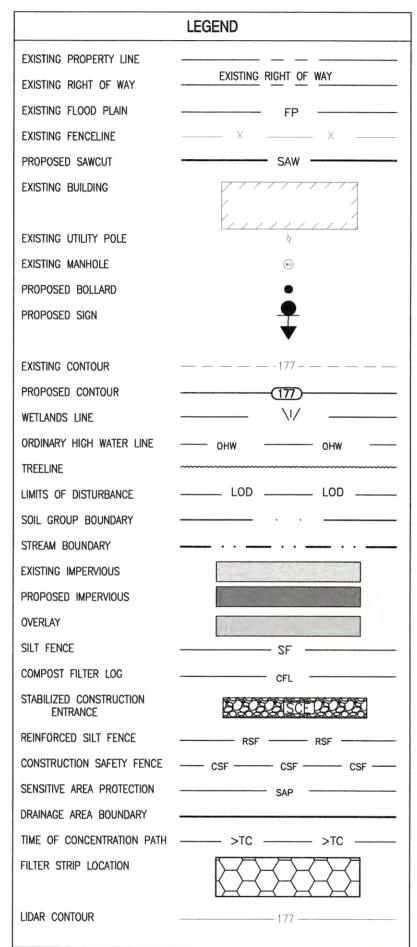
- . REVIEW AND APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- 3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR THE DELEGATED
- . FOLLOWING THE SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
- 5. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK,
- 6. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- . APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF 15. DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR
- B. POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE DNREC SEDIMENT AND STORMWATER PROGRAM WITHIN 60 DAYS OF STORMWATER MANAGEMENT FACILITY
- . APPROVAL OF A SEDIMENT AND STORMWATER PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- 10. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER NPDES GENERAL PERMIT FOR THIS PROJECT IS 5344. AT ANY TIME THE OWNERSHIP FOR THIS PROJECT CHANGES, A TRANSFER OF AUTHORIZATION OR A CO-PERMITEE APPLICATION MUST BE

- ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOGS OF THESE INSPECTIONS.
- 12. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1.800.282.8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
- 13. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- 14. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL C. CHAPTER 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND DEPARTMENT POLICIES, PROCEDURES,
- TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.
- 16. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH TRAIL ALIGNMENT AS CAN BE BACKFILLED WITH BASE COURSE STONE AND STABILIZED IN ONE DAY. DO NOT EXCAVATE IF IT WILL NOT BE STABILIZED IN

# WCCSP TRI-VALLEY TRAIL

## SEDIMENT STORMWATER MANAGEMENT PLANS

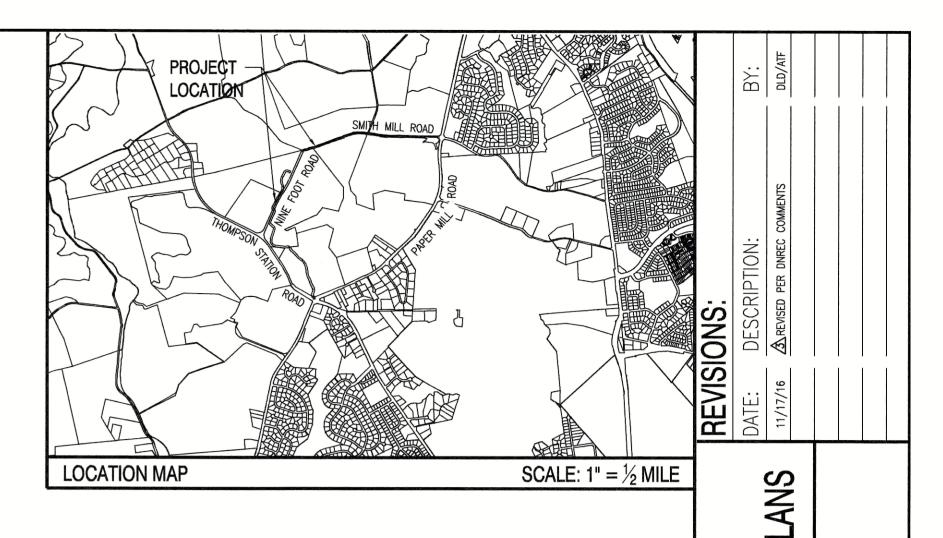
WHITE CLAY CREEK HUNDRED WHITE CLAY CREEK WATERSHED THOMPSON STATION ROAD, NEWARK, NEW CASTLE COUNTY, DELAWARE



#### SHEET INDEX

SWM1.0	COVER SHEET
SWM1.1	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
SWM1.2	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
SWM1.3	CONSTRUCTION SITE DETAILS AND NOTES
SWM1.4	CONSTRUCTION SITE DETAILS AND NOTES
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SWM1.7	OVERALL POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
SWM1.8	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, FILTER STRIP #
SWM1.9	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, FILTER STRIP #2
SWM1.10	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, BIOSWALE #1
SWM1.11	BMP CONTRIBUTING DRAINAGE AREA PLAN
SWM1.12	BMP CONTRIBUTING DRAINAGE AREA DETAILS AND NOTES

PRE-DEVELOPED AREA LOD PLAN



## CCR COPY

By: Engineet Mechal P. Talafin Approval Date: December 14, 2016

Expiration Date: December 14, 2021

OWNER/DEVELOPER CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CIVIL ENGINEER: CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON

CYNTHIA A. TODD, RLA CONSTRUCTION PROJECT ADMINISTRATOR OFFICE OF DESIGN AND DEVELOPMENT DNREC - DIVISION OF PARKS AND RECREATION 89 KINGS HIGHWAY, DOVER, DE 19901

WETLAND CERTIFICATION

PHONE: 302-739-9210

FAX: 302-739-3817

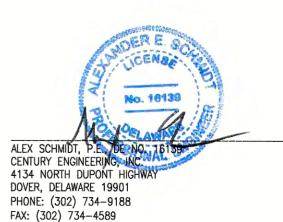
THIS PROPERTY, TAX MAP #'S 08-035.00-032, 08-040.00-054, 08-040.00-055, 08-041.00-027, 08-041.00-028, 08-041.00-029, 08-041.00-030 AND 08-047.00-097, HAVE BEEN EXAMINED BY CENTURY ENGINEERING, INC FOR THE PRESENCE OF WATERS OF THE UNITED STATES. INCLUDING WETLANDS (SECTION 404 AND SECTION 10). STATE SUBAQUEOUS LANDS AND STATE REGULATED WETLANDS AS ESTABLISHED BY THE REVIEWING AGENCIES IN THE FORM OF MANUALS, POLICIES AND PROCEDURES IN PLACE AT THE TIME THAT THE INVESTIGATION WAS CONDUCTED NO WETLANDS WERE FOUND WITHIN THE PROJECT LIMITS.

TJ AUSTIN ENVIRONMENTAL SCIENTIST CENTURY ENGINEERING, INC. 4134 NORTH DUPONT HIGHWAY DOVER, DELAWARE 19901 PHONE: (302) 734-9188

FAX: (302) 734-4589

CERTIFICATION OF PLAN ACCURACY

. HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.



18-NOV-ZO16

CONTRACT NO.:

MANAGEMENT

STORMWATER

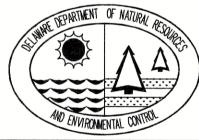
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WCCSP TRI-VALLEY

CENTURY ENGINEERING CONSULTING ENGINEERS, SURVEYORS 4134 N. DUPONT HWY. DOVER, DELAWARE 19901

CEI CONTRACT NO. WCCSP-7A



DESIGNED BY:

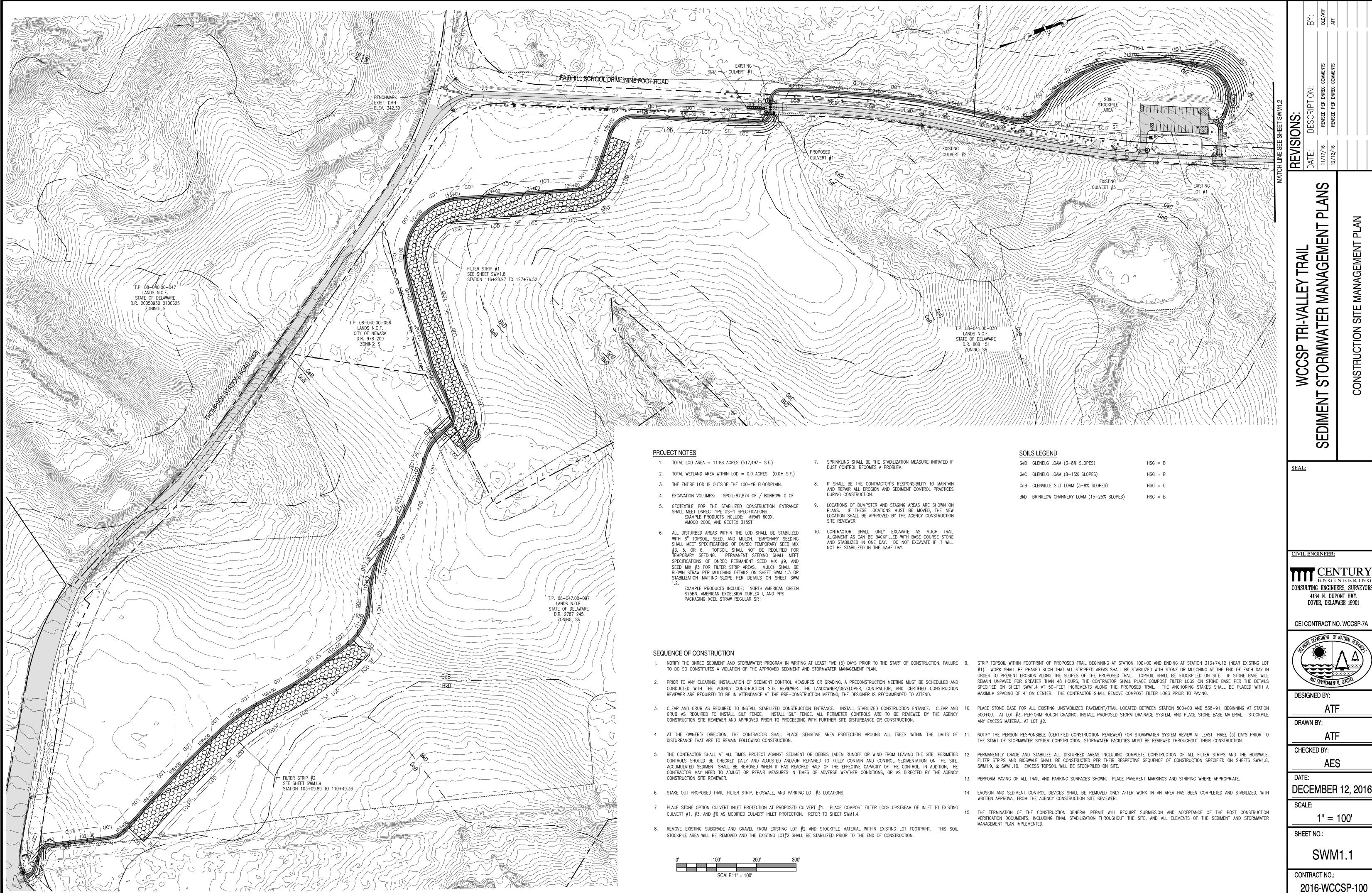
DRAWN BY:

CHECKED BY:

DATE: **NOVEMBER 14, 2016** 

NOT TO SCALE SHEET NO .:

2016-WCCSP-100



CENTURY ENGINEERING CONSULTING ENGINEERS, SURVEYORS



